Page 1 16:36 <golam shameem> 06/08/2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1626gms

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 5	FEB 05	German (DE) application and patent publication number format changes
NEWS 6	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS 7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS 8	MAR 03	FRANCEPAT now available on STN
NEWS 9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS 10	MAR 29	WPIFV now available on STN
NEWS 11	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12	APR 26	PROMT: New display field available
NEWS 13	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS 14	APR 26	LITALERT now available on STN
NEWS 15	APR 27	NLDB: New search and display fields available
NEWS 16	May 10	PROUSDDR now available on STN
NEWS 17	May 19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS 18	May 12	EXTEND option available in structure searching
NEWS 19	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20	May 17	FRFULL now available on STN
NEWS 21	May 27	STN User Update to be held June 7 and June 8 at the SLA 2004 Conference
NEWS 22	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 23	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 24	May 27	Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

10611979

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:18:51 ON 08 JUN 2004

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:19:13 ON 08 JUN 2004

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7
DICTIONARY FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7

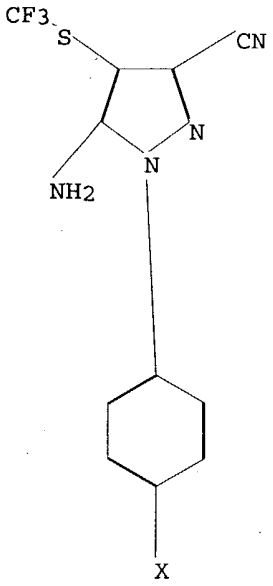
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

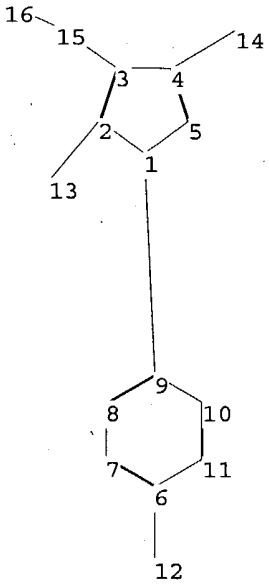
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10611979.str



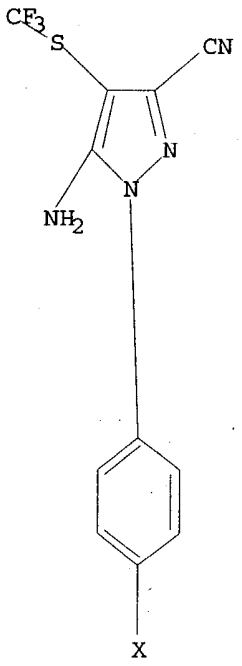


chain nodes :
12 13 14 15 16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :
1-9 2-13 3-15 4-14 6-12 15-16
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11
exact/norm bonds :
1-2 1-5 1-9 2-13 3-15 4-5
exact bonds :
2-3 3-4 4-14 6-12 15-16
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11
isolated ring systems :
containing 1 : 6 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 16:19:32 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     83 TO ITERATE

100.0% PROCESSED      83 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          1114 TO     2206
PROJECTED ANSWERS:                0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 16:19:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1663 TO ITERATE

100.0% PROCESSED    1663 ITERATIONS                               3 ANSWERS
SEARCH TIME: 00.00.01

L3             3 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              155.42     155.63

FILE 'CAPLUS' ENTERED AT 16:19:43 ON 08 JUN 2004
```

FILE COVERS 1907 - 8 Jun 2004 VOL 140 ISS 24
FILE LAST UPDATED: 7 Jun 2004 (20040607/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l3
L4              6 L3

=> s l3/p
L5              5 L3/P

=> s l3 and py<=1999
              6 L3
       19722749 PY<=1999
L6              5 L3 AND PY<=1999

=> s l5 and sulfur
         322944 SULFUR
            492 SULFURS
         323176 SULFUR
                (SULFUR OR SULFURS)
L7              1 L5 AND SULFUR

=> d l4 ibib abs hitstr tot
```

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:	2003:589504 CAPLUS
DOCUMENT NUMBER:	139:133561
TITLE:	Environment friendly reagents and process for haloalkylsulfinylation of organic compounds
INVENTOR(S):	Bertrand, Guy; Romanenko, Vadim D.; Raynier, Bernard; Derrieu, Guy
PATENT ASSIGNEE(S):	Virbac S.A., Fr.
SOURCE:	Eur. Pat. Appl., 18 pp. CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

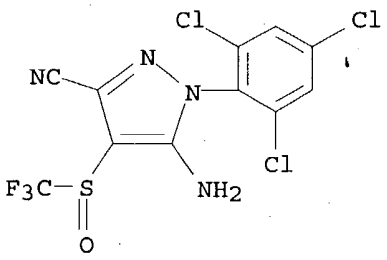
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1331222	A1	20030730	EP 2002-290184	20020128

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
WO 2003064384 A2 20030807 WO 2003-EP1515 20030128
WO 2003064384 A3 20031224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: EP 2002-290184 A 20020128
OTHER SOURCE(S): MARPAT 139:133561

AB R1CO(R2CO)NS(O)R [R1R2 = optionally substituted or annelated C1-C20, linear, branched or cyclic alkanediyl, alkenediyl, alkynediyl; R = (un)substituted alkyl] were prepared for use as haloalkylsulfinylating agents. Thus, lithiosuccinimide was treated with F3CS(O)Cl to give N-trifluoromethylsulfinylsuccinimide which was treated with 1-phenyl-3-methyl-5-aminopyrazole too give the 4-trifluoromethylsulfinyl derivative in 82% yield.

IT **569337-28-6P**, 1-(2,4,6-Trichlorophenyl)-3-cyano-4-trifluoromethylsulfinyl-5-aminopyrazole
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of trifluoromethylsulfinylsuccinimide as trifluoromethylsulfinylating agent)

RN 569337-28-6 CAPLUS
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:304135 CAPLUS
DOCUMENT NUMBER: 128:321643
TITLE: Preparation of pesticidal 1-polyarylpyrazoles
INVENTOR(S): Herman, Nancy Darnell; Huber, Scot Kevin; Huang, Jamin; Timmons, Philip
PATENT ASSIGNEE(S): Rhone-Poulenc Agrochimie, Fr.
SOURCE: Eur. Pat. Appl., 38 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

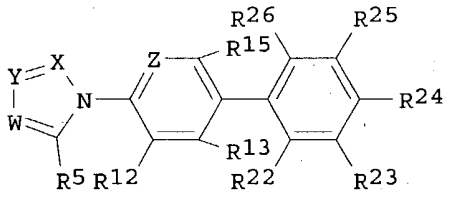
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 839810	A1	19980506	EP 1997-119154	19971103
EP 839810	B1	20020925		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI				
AT 224878	E	20021015	AT 1997-119154	19971103
ES 2179254	T3	20030116	ES 1997-119154	19971103
JP 10158240	A2	19980616	JP 1997-302250	19971104
US 5922884	A	19990713	US 1997-963631	19971104
US 6107322	A	20000822	US 1998-216878	19981221
US 6242475	B1	20010605	US 2000-606185	20000629
US 2002002195	A1	20020103	US 2001-832861	20010412
US 6433002	B2	20020813		
US 37936	E	20021210	US 2001-903990	20010713
US 2002193411	A1	20021219	US 2002-152806	20020523
US 6608093	B2	20030819		

PRIORITY APPLN. INFO.: US 1996-30128P P 19961104
US 1997-963631 A3 19971104
US 1998-216878 A3 19981221
US 2000-606185 A3 20000629
US 2001-832861 A3 20010412

OTHER SOURCE(S): MARPAT 128:321643

GI



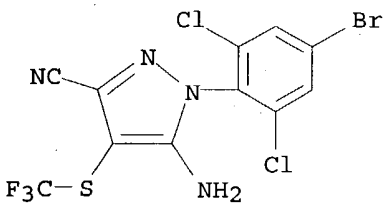
I

AB The title compds. [I; X = N, CR2; Y = N, CR3; W = N, CR4; R2, R3 = H, halo, OH, etc.; R4 = H, halo, alkyl, etc.; R5 = H, halo, CHO, etc.; Z = N, CR16; R12, R13, R15, R16 = H, halo, alkyl, etc.; R22-R26 = halo, alkyl, haloalkyl, etc.], useful to control pests, were prepared Thus, reaction of 5-amino-3-cyano-1-(2,6-dichloro-4-bromophenyl)-4-trifluoromethylthiopyrazole with 4-trifluoromethylphenylboronic acid in the presence of Pd2(dba)3, K2CO3 in diglyme afforded I [X = N; Y = C(CN); W = C(SCF3); R5 = NH2; Z = C(Cl); R12 = Cl; R13, R15, R22, R23, R25, R26 = H; R24 = CF3]. The prepared compds. I showed rather good activity on C. elegans.

IT **207136-58-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pesticidal 1-polyarylpyrazoles)

RN 207136-58-1 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(4-bromo-2,6-dichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:298625 CAPLUS
DOCUMENT NUMBER: 120:298625
TITLE: Preparation of phenylpyrazoles as arthropodicides, nematocides, protozoacides, and anthelmintics
INVENTOR(S): Hatton, Leslie R.; Buntain, Ian G.; Hawkins, David W.; Parnell, Edgar W.; Pearson, Christopher J.
PATENT ASSIGNEE(S): UK
SOURCE: U.S., 76 pp. Cont.-in-part of U.S. Ser. No. 445,153, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5232940	A	19930803	US 1990-520290	19900507
IL 86493	A1	19921115	IL 1988-86493	19880525
IL 105138	A1	19940826	IL 1988-105138	19880525
HU 210668	B	19950628	HU 1991-1577	19880610
US 5547974	A	19960820	US 1993-57669	19930505
FI 9501839	A	19950418	FI 1995-1839	19950418
US 5608077	A	19970304	US 1995-454412	19950530
US 5714191	A	19980203	US 1995-453087	19950530
US 5916618	A	19990629	US 1997-947056	19971007
US 6372774	B1	20020416	US 1999-354903	19990716
DK 200201527	A5	20021010	DK 2002-1527	20021010

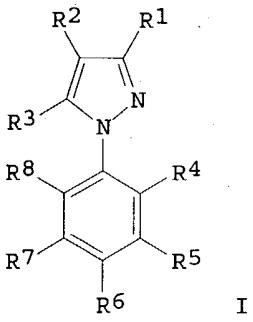
PRIORITY APPLN. INFO.:

GB 1985-31485	A	19851220
US 1986-943132	B1	19861218
GB 1987-13768	A	19870612
GB 1987-13769	A	19870612
US 1988-205238	B1	19880610
US 1988-205299	B1	19880610
US 1989-380333	B1	19890717
US 1989-413134	B1	19890927
US 1989-445153	B2	19891205
IL 1986-81025	A	19861218
IL 1988-86492	A	19880525
DK 1988-3140	L	19880609
FI 1988-2735	A	19880609
HU 1988-3009	A	19880610
US 1990-520290	A3	19900507
US 1993-57669	A3	19930505
US 1995-453087	A1	19950530
US 1996-652921	B1	19960524

US 1997-855876 B3 19970512
US 1998-137313 B3 19980821

OTHER SOURCE(S): MARPAT 120:298625

GI



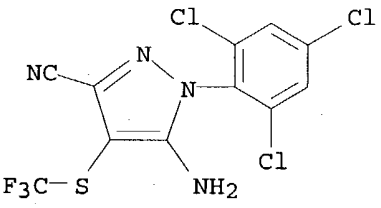
I

AB Title compds. [I; R1 = cyano, nitro, halo, acetyl, formyl, (halo)alkyl, etc.; R2 = R'SO2, R'SO, R'S, halo, cyano, nitro, cycloalkyl, alkenyl, thiocyanato, sulfamoyl, carbamoyl, alkoxycarbonyl, alkanoyl, (halo)alkyl; R' = (substituted) alkyl, alkenyl, alkynyl; R3 = H, (substituted) amino, alkoxycarbonyl, alkoxymethyleneamino, halo, cycloalkyl, cycloalkylcarbonyl, alkylsulfenylamino, trialkylsilylmethyl, etc.; R4-R8 = H, halo, nitro, cyano, (halo-substituted) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared Thus, fuming nitric acid was added dropwise to 5-acetamido-3-bromo-1-(2,6-dichloro-4-triflluoromethylphenyl)pyrazole and acetic anhydride in acetic acid; the mixture was stirred at 60° for 5 h to give 5-acetamido-3-bromo-1-(2,6-dichloro-4-triflluoromethylphenyl)-4-nitropyrazole. Several I were effective against Plutella xylostella larvae, all stages of Megoura viciae, and Spodoptera littoralis larvae.

IT **120115-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as arthropodicide, nematocide, and anthelmintic)

RN 120115-83-5 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

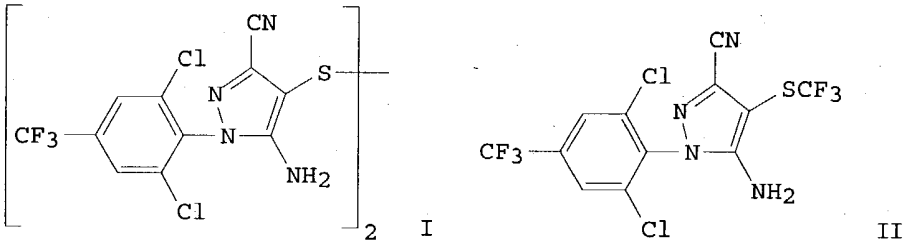
ACCESSION NUMBER: 1993:191618 CAPLUS

DOCUMENT NUMBER: 118:191618

TITLE: Reactions of bromotrifluoromethane and related halides. Part 12. Transformation of disulfides into perfluoroalkyl sulfides in the presence of sulfoxylate anion radical precursors

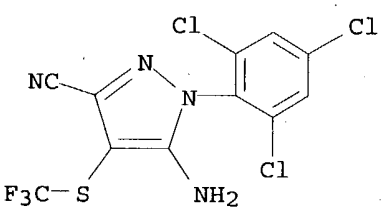
AUTHOR(S): Clavel, Jean Louis; Langlois, Bernard; Nantermet,

Roland; Tordeux, Marc; Wakselman, Claude
CORPORATE SOURCE: Rhone-Poulenc Rech., Cent. Rech. Carrieres, Saint-Fons, 69192, Fr.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1992), (24), 3371-5
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:191618
GI



I II

AB Perfluoroalkyl sulfides are prepared by reaction of perfluoroalkyl halides with disulfides in the presence of sulfoxylate anion radical precursors. Aliphatic, aromatic and heteroarom. disulfides bearing cyano, ester and amino functional groups have been employed; a variety of perhaloalkanes can also be employed, e.g., CF3(CF2)nI, CF3Br, CF2Br2, CF2BrCl, CFCl3 and CF2ClCFCl2. The most convenient sulfoxylate anion radical precursor for this reaction is formed by a combination of sodium formate and sulfur dioxide. Thus, reaction of pyrazolyl disulfide I with HCO2Na and SO2 in DMF at 60° and 12-13 bar for 4 h in an autoclave afforded perfluoroalkyl sulfide II in 85% yield. Also, reaction of PhSSPh with CF2BrCl and Rongalite (sodium hydroxymethanesulfinate) in DMF-H2O at 1.7 bar and 20° for 6 h afforded PhSCF2Cl in 72% yield.
IT **120115-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 120115-83-5 CAPLUS
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)

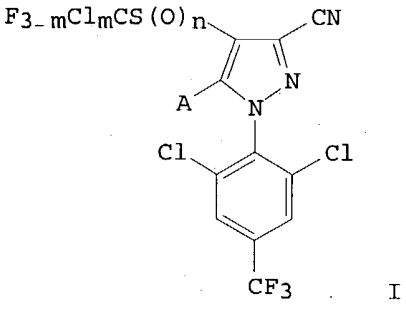


L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:429320 CAPLUS
DOCUMENT NUMBER: 115:29320
TITLE: N-phenylpyrazole derivatives as insecticides
INVENTOR(S): Roberts, David Alan; Hawkins, David William; Buntain,

Ian George; McGuire, Ross
PATENT ASSIGNEE(S): Rhone-Poulenc Agriculture Ltd., UK
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 418016	A1	19910320	EP 1990-309882	19900910
EP 418016	B1	19950503		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9006802	A	19911127	ZA 1990-6802	19900827
NO 9003908	A	19910312	NO 1990-3908	19900907
AU 9062312	A1	19910314	AU 1990-62312	19900907
AU 649230	B2	19940519		
CA 2024955	AA	19910312	CA 1990-2024955	19900910
HU 54868	A2	19910429	HU 1990-5850	19900910
HU 208231	B	19930928		
CN 1053233	A	19910724	CN 1990-107675	19900910
BR 9004697	A	19910910	BR 1990-4697	19900910
DD 297641	A5	19920116	DD 1990-343914	19900910
RO 107255	B1	19931030	RO 1990-145905	19900910
PL 163642	B1	19940429	PL 1990-286822	19900910
AT 122038	E	19950515	AT 1990-309882	19900910
CZ 279476	B6	19950517	CZ 1990-4387	19900910
ES 2071777	T3	19950701	ES 1990-309882	19900910
JP 03118369	A2	19910520	JP 1990-241032	19900911
JP 3100053	B2	20001016		

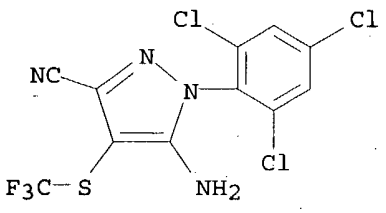
PRIORITY APPLN. INFO.: GB 1989-20521 A 19890911
OTHER SOURCE(S): MARPAT 115:29320
GI



I

AB The title compds. (I; A = iodo, Br, H, NH2; m = 1,2; n = 0, 1, 2), useful for controlling arthropod, plant nematode, helminth, or protozoal pests, are prepared Thus, a solution of I [A = NH2, F3-mClmCS(O)n = CHClF2S] in dry THF was added to tert-BuONO2 at room temperature and the mixture was stirred 3 days at room temperature to give I [A = H, F3-mClmCS(O)n = CHClF2S]. I at ≤500 ppm gave 60% mortality against the larvae of Plutella xylostella.
IT **120115-83-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for pesticidal phenylpyrazole)
RN 120115-83-5 CAPLUS
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:35845 CAPLUS
DOCUMENT NUMBER: 112:35845
TITLE: N-phenylpyrazole derivatives as pesticides for plants, animals, and man, and their preparation, compositions, and use
INVENTOR(S): Buntain, Ian George; Hatton, Leslie Roy; Hawkins, David William; Pearson, Christopher John; Roberts, David Alan
PATENT ASSIGNEE(S): May and Baker Ltd., UK
SOURCE: Eur. Pat. Appl., 40 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 295117	A1	19881214	EP 1988-305306	19880610
EP 295117	B1	20000405		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
IL 86492	A1	19930708	IL 1988-86492	19880525
IL 105138	A1	19940826	IL 1988-105138	19880525
DK 8803140	A	19881213	DK 1988-3140	19880609
FI 8802735	A	19881213	FI 1988-2735	19880609
NO 8802551	A	19881213	NO 1988-2551	19880609
NO 175367	B	19940627		
NO 175367	C	19941005		
AU 8817554	A1	19881215	AU 1988-17554	19880609
AU 618266	B2	19911219		
RO 100612	B1	19920707	RO 1988-133912	19880609
RO 106496	B1	19930531	RO 1988-144353	19880609
JP 63316771	A2	19881226	JP 1988-143451	19880610
ZA 8804179	A	19890222	ZA 1988-4179	19880610
HU 48875	A2	19890728	HU 1988-3009	19880610
HU 203729	B	19910930		
PL 153478	B1	19910430	PL 1988-272998	19880610
CA 1330089	A1	19940607	CA 1988-569272	19880610
HU 210668	B	19950628	HU 1991-1577	19880610
SK 278972	B6	19980506	SK 1988-4052	19880610
CZ 285151	B6	19990512	CZ 1988-4052	19880610
EP 967206	A1	19991229	EP 1999-113797	19880610

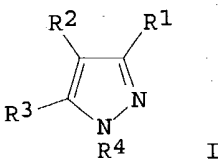
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 191479	E	20000415	AT 1988-305306	19880610
ES 2144390	T3	20000616	ES 1988-305306	19880610
CN 88103601	A	19881228	CN 1988-103601	19880611
CN 1027341	B	19950111		
KR 9701475	B1	19970206	KR 1988-7045	19880611
BR 8803258	A	19890131	BR 1988-3258	19880613
DD 281744	A5	19900822	DD 1988-316723	19880613
DD 281744	B5	19970220		
RU 2051909	C1	19960110	RU 1991-4894762	19910315
FI 9501839	A	19950418	FI 1995-1839	19950418
HK 1005289	A1	20010209	HK 1998-102258	19980318
GR 3033663	T3	20001031	GR 2000-401350	20000614
DK 200201527	A5	20021010	DK 2002-1527	20021010

PRIORITY APPLN. INFO.:

GB 1987-13768	A	19870612
IL 1988-86492	A	19880525
DK 1988-3140	L	19880609
FI 1988-2735	A	19880609
EP 1988-305306	A3	19880610
HU 1988-3009	A	19880610

OTHER SOURCE(S): MARPAT 112:35845

GI



I

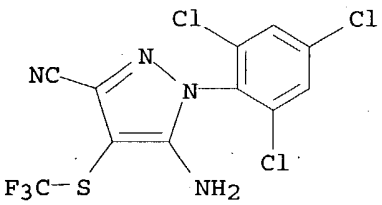
AB The title compds. [I; R1 = cyano, NO2, halo, Ac, CHO; R2 = R5S(O)n where n = 0, 1, or 2; R5 = (≤1 halo-substituted) straight- or branched-chain ≥4 alkyl, alkenyl, or alkynyl; R3 = H, NR6R7, halo, straight- or branched-chain C2-5 alkoxymethyleneamino (un)substituted on methylene by a straight- or branched-chain C1-4 alkyl; R6, R7 = H, straight- or branched-chain ≤5 alkyl, alkenylalkyl, or alkynylalkyl, CHO, (≤1 halo-substituted) straight- or branched-chain C2-5 alkanoyl or alkoxycarbonyl, or NR6R7 = 5- or 6-membered cyclic imido; R4 = 2- or 6-halo- or 4-straight- or branched-chain (Cl- or Br-substituted) alkyl- or alkoxy-substituted phenyl; with the exclusion of the compound wherein R1 = cyano, R2 = MeSO2, R3 = NH2 and R4 = 2,6,4-Cl2(CF3)C6H2], useful for control of arthropod, plant nematode, helminth and protozoan pests (no data except insects), were prepared A stirred solution of 20 g 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)pyrazole in CH2Cl2 was treated dropwise with a solution of 10.8 g CF3SCl in CH2Cl2 during 1 h. The resulting solution was stirred overnight at room temperature to give 24.2 g 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylthiopyrazole (II). I at <500 ppm caused at least 65% mortality against Plutella xylostella larvae. A water-soluble concentrate was formulated from II 7, Ethylan BCP 10% w/v and N-methylpyrrolidone 1004 by volume

IT **120115-83-5P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)

RN 120115-83-5 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



=> d l5 ibib abs hitstr tot

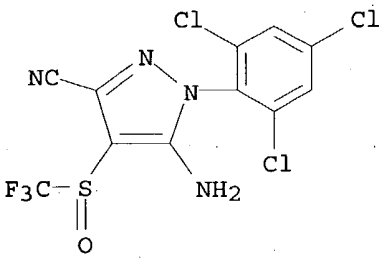
L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:589504 CAPLUS
DOCUMENT NUMBER: 139:133561
TITLE: Environment friendly reagents and process for haloalkylsulfinylation of organic compounds
INVENTOR(S): Bertrand, Guy; Romanenko, Vadim D.; Raynier, Bernard; Derrieu, Guy
PATENT ASSIGNEE(S): Virbac S.A., Fr.
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1331222	A1	20030730	EP 2002-290184	20020128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2003064384	A2	20030807	WO 2003-EP1515	20030128
WO 2003064384	A3	20031224		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2002-290184 A 20020128
OTHER SOURCE(S): MARPAT 139:133561
AB R1CO(R2CO)NS(O)R [R1R2 = optionally substituted or annelated C1-C20, linear, branched or cyclic alkanediyl, alkenediyl, alkynediyl; R = (un)substituted alkyl] were prepared for use as haloalkylsulfinylating agents. Thus, lithiosuccinimide was treated with F3CS(O)Cl to give N-trifluoromethylsulfinylsuccinimide which was treated with 1-phenyl-3-methyl-5-aminopyrazole too give the 4-trifluoromethylsulfinyl derivative in 82% yield.
IT **569337-28-6P**, 1-(2,4,6-Trichlorophenyl)-3-cyano-4-

trifluoromethylsulfinyl-5-aminopyrazole
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of trifluoromethylsulfinylsuccinimide as trifluoromethylsulfinylating agent)

RN 569337-28-6 CAPLUS
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

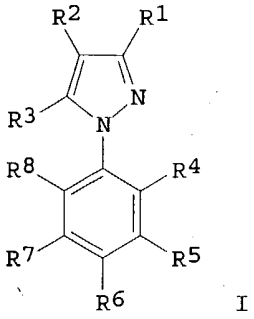
L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:298625 CAPLUS
DOCUMENT NUMBER: 120:298625
TITLE: Preparation of phenylpyrazoles as arthropodicides, nematocides, protozoacides, and anthelmintics
INVENTOR(S): Hatton, Leslie R.; Buntain, Ian G.; Hawkins, David W.; Parnell, Edgar W.; Pearson, Christopher J.
PATENT ASSIGNEE(S): UK
SOURCE: U.S., 76 pp. Cont.-in-part of U.S. Ser. No. 445,153, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5232940	A	19930803	US 1990-520290	19900507
IL 86493	A1	19921115	IL 1988-86493	19880525
IL 105138	A1	19940826	IL 1988-105138	19880525
HU 210668	B	19950628	HU 1991-1577	19880610
US 5547974	A	19960820	US 1993-57669	19930505
FI 9501839	A	19950418	FI 1995-1839	19950418
US 5608077	A	19970304	US 1995-454412	19950530
US 5714191	A	19980203	US 1995-453087	19950530
US 5916618	A	19990629	US 1997-947056	19971007
US 6372774	B1	20020416	US 1999-354903	19990716
DK 200201527	A5	20021010	DK 2002-1527	20021010

PRIORITY APPLN. INFO.:
GB 1985-31485 A 19851220
US 1986-943132 B1 19861218
GB 1987-13768 A 19870612
GB 1987-13769 A 19870612
US 1988-205238 B1 19880610
US 1988-205299 B1 19880610
US 1989-380333 B1 19890717
US 1989-413134 B1 19890927

US	1989-445153	B2 19891205
IL	1986-81025	A 19861218
IL	1988-86492	A 19880525
DK	1988-3140	L 19880609
FI	1988-2735	A 19880609
HU	1988-3009	A 19880610
US	1990-520290	A3 19900507
US	1993-57669	A3 19930505
US	1995-453087	A1 19950530
US	1996-652921	B1 19960524
US	1997-855876	B3 19970512
US	1998-137313	B3 19980821

OTHER SOURCE(S): MARPAT 120:298625
GI



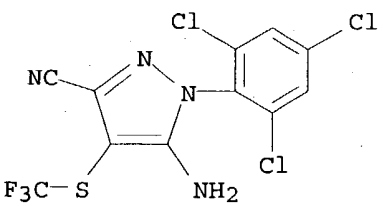
I

AB Title compds. [I; R1 = cyano, nitro, halo, acetyl, formyl, (halo)alkyl, etc.; R2 = R'SO2, R'SO, R'S, halo, cyano, nitro, cycloalkyl, alkenyl, thiocyanato, sulfamoyl, carbamoyl, alkoxycarbonyl, alkanoyl, (halo)alkyl; R' = (substituted) alkyl, alkenyl, alkynyl; R3 = H, (substituted) amino, alkoxycarbonyl, alkoxymethyleneamino, halo, cycloalkyl, cycloalkylcarbonyl, alkylsulfenylamino, trialkylsilylmethyl, etc.; R4-R8 = H, halo, nitro, cyano, (halo-substituted) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared Thus, fuming nitric acid was added dropwise to 5-acetamido-3-bromo-1-(2,6-dichloro-4-triflluoromethylphenyl)pyrazole and acetic anhydride in acetic acid; the mixture was stirred at 60° for 5 h to give 5-acetamido-3-bromo-1-(2,6-dichloro-4-triflluoromethylphenyl)-4-nitropyrazole. Several I were effective against Plutella xylostella larvae, all stages of Megoura viciae, and Spodoptera littoralis larvae.

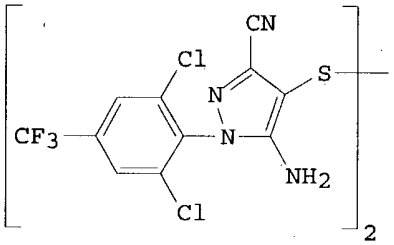
IT **120115-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as arthropodicide, nematocide, and anthelmintic)

RN 120115-83-5 CAPLUS

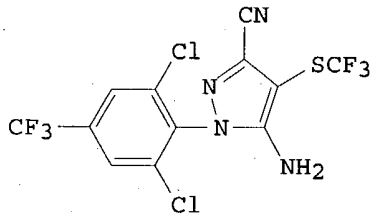
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:191618 CAPLUS
DOCUMENT NUMBER: 118:191618
TITLE: Reactions of bromotrifluoromethane and related halides. Part 12. Transformation of disulfides into perfluoroalkyl sulfides in the presence of sulfoxylate anion radical precursors
AUTHOR(S): Clavel, Jean Louis; Langlois, Bernard; Nantermet, Roland; Tordeux, Marc; Wakselman, Claude
CORPORATE SOURCE: Rhone-Poulenc Rech., Cent. Rech. Carrieres, Saint-Fons, 69192, Fr.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1992), (24), 3371-5
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:191618
GI



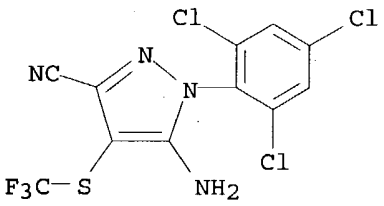
I



II

AB Perfluoroalkyl sulfides are prepared by reaction of perfluoroalkyl halides with disulfides in the presence of sulfoxylate anion radical precursors. Aliphatic, aromatic and heteroarom. disulfides bearing cyano, ester and amino functional groups have been employed; a variety of perhaloalkanes can also be employed, e.g., CF3(CF2)nI, CF3Br, CF2Br2, CF2BrCl, CFCl3 and CF2ClCFCl2. The most convenient sulfoxylate anion radical precursor for this reaction is formed by a combination of sodium formate and sulfur dioxide. Thus, reaction of pyrazolyl disulfide I with HCO2Na and SO2 in DMF at 60° and 12-13 bar for 4 h in an autoclave afforded perfluoroalkyl sulfide II in 85% yield. Also, reaction of PhSSPh with CF2BrCl and Rongalite (sodium hydroxymethanesulfinate) in DMF-H2O at 1.7 bar and 20° for 6 h afforded PhSCF2Cl in 72% yield.

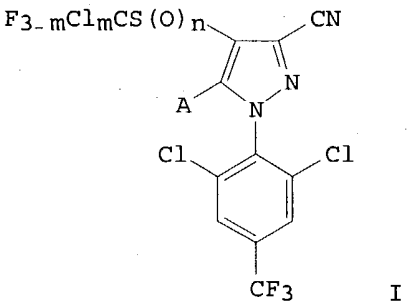
IT **120115-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 120115-83-5 CAPLUS
CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:429320 CAPLUS
DOCUMENT NUMBER: 115:29320
TITLE: N-phenylpyrazole derivatives as insecticides
INVENTOR(S): Roberts, David Alan; Hawkins, David William; Buntain, Ian George; McGuire, Ross
PATENT ASSIGNEE(S): Rhone-Poulenc Agriculture Ltd., UK
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 418016	A1	19910320	EP 1990-309882	19900910
EP 418016	B1	19950503		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9006802	A	19911127	ZA 1990-6802	19900827
NO 9003908	A	19910312	NO 1990-3908	19900907
AU 9062312	A1	19910314	AU 1990-62312	19900907
AU 649230	B2	19940519		
CA 2024955	AA	19910312	CA 1990-2024955	19900910
HU 54868	A2	19910429	HU 1990-5850	19900910
HU 208231	B	19930928		
CN 1053233	A	19910724	CN 1990-107675	19900910
BR 9004697	A	19910910	BR 1990-4697	19900910
DD 297641	A5	19920116	DD 1990-343914	19900910
RO 107255	B1	19931030	RO 1990-145905	19900910
PL 163642	B1	19940429	PL 1990-286822	19900910
AT 122038	E	19950515	AT 1990-309882	19900910
CZ 279476	B6	19950517	CZ 1990-4387	19900910
ES 2071777	T3	19950701	ES 1990-309882	19900910
JP 03118369	A2	19910520	JP 1990-241032	19900911
JP 3100053	B2	20001016		

PRIORITY APPLN. INFO.: GB 1989-20521 A 19890911
OTHER SOURCE(S): MARPAT 115:29320
GI



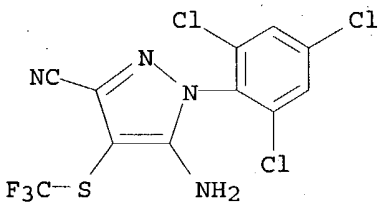
I

AB The title compds. (I; A = iodo, Br, H, NH2; m = 1,2; n = 0, 1, 2), useful for controlling arthropod, plant nematode, helminth, or protozoal pests, are prepared Thus, a solution of I [A = NH2, F3-mClmCS(O)n = CHClF2S] in dry THF was added to tert-BuONO2 at room temperature and the mixture was stirred 3 days at room temperature to give I [A = H, F3-mClmCS(O)n = CHClF2S]. I at ≤500 ppm gave 60% mortality against the larvae of Plutella xylostella.

IT **120115-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for pesticidal phenylpyrazole)

RN 120115-83-5 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:35845 CAPLUS

DOCUMENT NUMBER: 112:35845

TITLE: N-phenylpyrazole derivatives as pesticides for plants, animals, and man, and their preparation, compositions, and use

INVENTOR(S): Buntain, Ian George; Hatton, Leslie Roy; Hawkins, David William; Pearson, Christopher John; Roberts, David Alan

PATENT ASSIGNEE(S): May and Baker Ltd., UK

SOURCE: Eur. Pat. Appl., 40 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

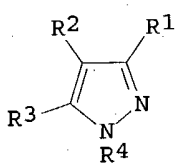
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 295117	A1	19881214	EP 1988-305306	19880610

EP 295117	B1	20000405			
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
IL 86492	A1	19930708	IL	1988-86492	19880525
IL 105138	A1	19940826	IL	1988-105138	19880525
DK 8803140	A	19881213	DK	1988-3140	19880609
FI 8802735	A	19881213	FI	1988-2735	19880609
NO 8802551	A	19881213	NO	1988-2551	19880609
NO 175367	B	19940627			
NO 175367	C	19941005			
AU 8817554	A1	19881215	AU	1988-17554	19880609
AU 618266	B2	19911219			
RO 100612	B1	19920707	RO	1988-133912	19880609
RO 106496	B1	19930531	RO	1988-144353	19880609
JP 63316771	A2	19881226	JP	1988-143451	19880610
ZA 8804179	A	19890222	ZA	1988-4179	19880610
HU 48875	A2	19890728	HU	1988-3009	19880610
HU 203729	B	19910930			
PL 153478	B1	19910430	PL	1988-272998	19880610
CA 1330089	A1	19940607	CA	1988-569272	19880610
HU 210668	B	19950628	HU	1991-1577	19880610
SK 278972	B6	19980506	SK	1988-4052	19880610
CZ 285151	B6	19990512	CZ	1988-4052	19880610
EP 967206	A1	19991229	EP	1999-113797	19880610
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
AT 191479	E	20000415	AT	1988-305306	19880610
ES 2144390	T3	20000616	ES	1988-305306	19880610
CN 88103601	A	19881228	CN	1988-103601	19880611
CN 1027341	B	19950111			
KR 9701475	B1	19970206	KR	1988-7045	19880611
BR 8803258	A	19890131	BR	1988-3258	19880613
DD 281744	A5	19900822	DD	1988-316723	19880613
DD 281744	B5	19970220			
RU 2051909	C1	19960110	RU	1991-4894762	19910315
FI 9501839	A	19950418	FI	1995-1839	19950418
HK 1005289	A1	20010209	HK	1998-102258	19980318
GR 3033663	T3	20001031	GR	2000-401350	20000614
DK 200201527	A5	20021010	DK	2002-1527	20021010

PRIORITY APPLN. INFO.:	GB	1987-13768	A 19870612
	IL	1988-86492	A 19880525
	DK	1988-3140	L 19880609
	FI	1988-2735	A 19880609
	EP	1988-305306	A3 19880610
	HU	1988-3009	A 19880610

OTHER SOURCE(S): MARPAT 112:35845

GI



I

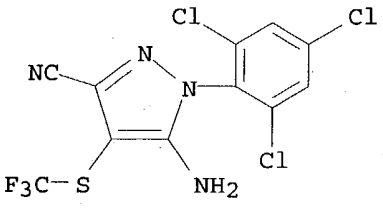
AB The title compds. [I; R1 = cyano, NO2, halo, Ac, CHO; R2 = R5S(O)n where n = 0, 1, or 2; R5 = (≤1 halo-substituted) straight- or branched-chain ≥4 alkyl, alkenyl, or alkynyl; R3 = H, NR6R7, halo, straight- or branched-chain C2-5 alkoxymethyleneamino (un)substituted on

methylene by a straight- or branched-chain C1-4 alkyl; R6, R7 = H, straight- or branched-chain ≤5 alkyl, alkenylalkyl, or alkynylalkyl, CHO, (≤1 halo-substituted) straight- or branched-chain C2-5 alkanoyl or alkoxycarbonyl, or NR6R7 = 5- or 6-membered cyclic imido; R4 = 2- or 6-halo- or 4-straight- or branched-chain (Cl- or Br-substituted) alkyl- or alkoxy-substituted phenyl; with the exclusion of the compound wherein R1 = cyano, R2 = MeSO2, R3 = NH2 and R4 = 2,6,4-Cl2(CF3)C6H2], useful for control of arthropod, plant nematode, helminth and protozoan pests (no data except insects), were prepared A stirred solution of 20 g 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)pyrazole in CH2Cl2 was treated dropwise with a solution of 10.8 g CF3SCl in CH2Cl2 during 1 h. The resulting solution was stirred overnight at room temperature to give 24.2 g 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylthiopyrazole (II). I at <500 ppm caused at least 65% mortality against Plutella xylostella larvae. A water-soluble concentrate was formulated from II 7, Ethylan BCP 10% w/v and N-methylpyrrolidone 1004 by volume

IT **120115-83-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)

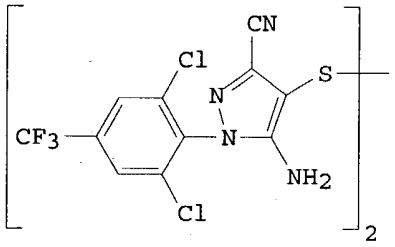
RN 120115-83-5 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)

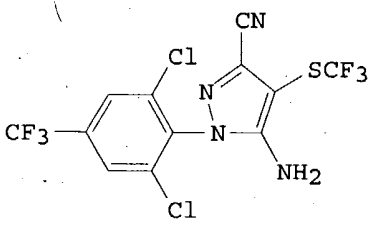


=> d l7 ibib abs hitstr tot

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:191618 CAPLUS
DOCUMENT NUMBER: 118:191618
TITLE: Reactions of bromotrifluoromethane and related halides. Part 12. Transformation of disulfides into perfluoroalkyl sulfides in the presence of sulfoxylate anion radical precursors
AUTHOR(S): Clavel, Jean Louis; Langlois, Bernard; Nantermet, Roland; Tordeux, Marc; Wakselman, Claude
CORPORATE SOURCE: Rhone-Poulenc Rech., Cent. Rech. Carrieres, Saint-Fons, 69192, Fr.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1992), (24), 3371-5
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:191618
GI



I



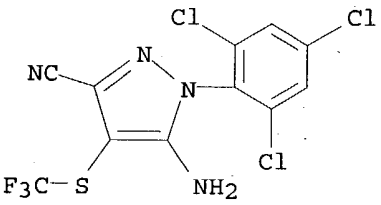
II

AB Perfluoroalkyl sulfides are prepared by reaction of perfluoroalkyl halides with disulfides in the presence of sulfoxylate anion radical precursors. Aliphatic, aromatic and heteroarom. disulfides bearing cyano, ester and amino functional groups have been employed; a variety of perhaloalkanes can also be employed, e.g., CF3(CF2)nI, CF3Br, CF2Br2, CF2BrCl, CFCl3 and CF2ClCFCl2. The most convenient sulfoxylate anion radical precursor for this reaction is formed by a combination of sodium formate and **sulfur** dioxide. Thus, reaction of pyrazolyl disulfide I with HCO2Na and SO2 in DMF at 60° and 12-13 bar for 4 h in an autoclave afforded perfluoroalkyl sulfide II in 85% yield. Also, reaction of PhSSPh with CF2BrCl and Rongalite (sodium hydroxymethanesulfinate) in DMF-H2O at 1.7 bar and 20° for 6 h afforded PhSCF2Cl in 72% yield.

IT **120115-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 120115-83-5 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 5-amino-1-(2,4,6-trichlorophenyl)-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	62.46	218.09
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.32	-8.32

STN INTERNATIONAL LOGOFF AT 16:22:13 ON 08 JUN 2004

Page 1 16:34 <golam shameem> 06/08/2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1626gms

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS	5	FEB 05	German (DE) application and patent publication number format changes
NEWS	6	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 03	FRANCEPAT now available on STN
NEWS	9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	10	MAR 29	WPIFV now available on STN
NEWS	11	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	12	APR 26	PROMT: New display field available
NEWS	13	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS	14	APR 26	LITALERT now available on STN
NEWS	15	APR 27	NLDB: New search and display fields available
NEWS	16	May 10	PROUSDDR now available on STN
NEWS	17	May 19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS	18	May 12	EXTEND option available in structure searching
NEWS	19	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	20	May 17	FRFULL now available on STN
NEWS	21	May 27	STN User Update to be held June 7 and June 8 at the SLA 2004 Conference
NEWS	22	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS	23	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS	24	May 27	Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:31:39 ON 08 JUN 2004

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:31:51 ON 08 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7
DICTIONARY FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7

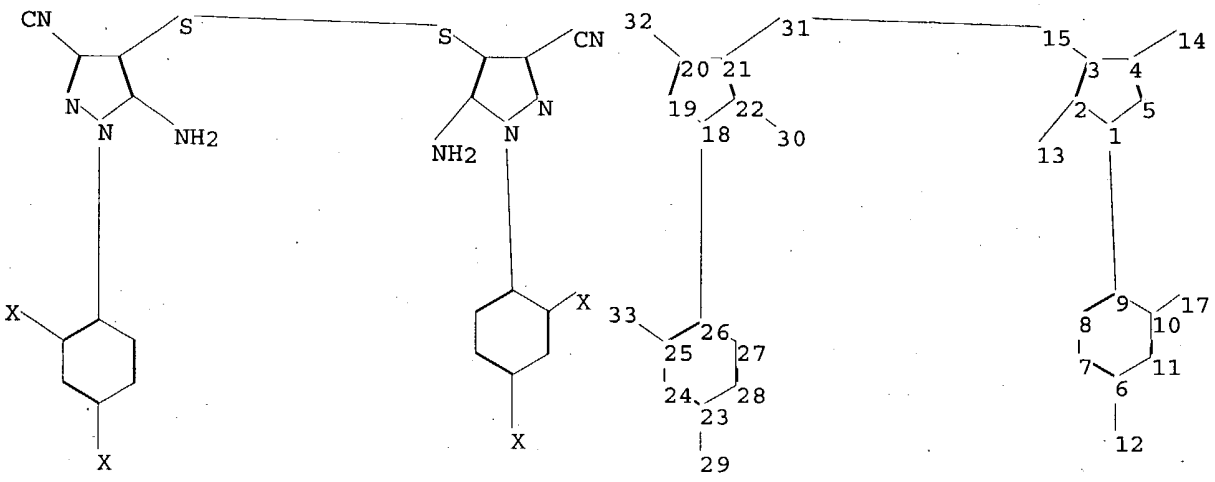
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10611979a.str



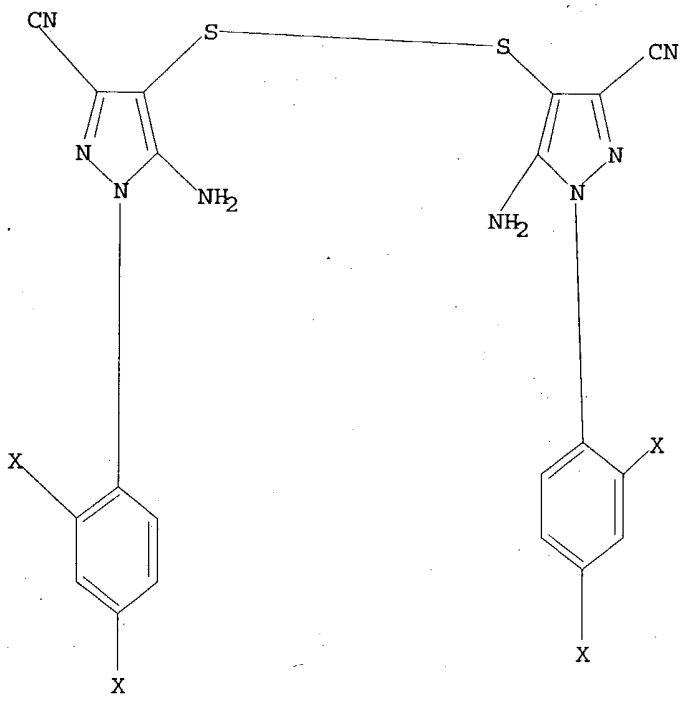
chain nodes :
12 13 14 15 17 29 30 31 32 33
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 18 19 20 21 22 23 24 25 26 27 28
chain bonds :
1-9 2-13 3-15 4-14 6-12 10-17 15-31 18-26 20-32 21-31 22-30 23-29 25-33

ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 18-19 18-22 19-20
20-21 21-22 23-24 23-28 24-25 25-26 26-27 27-28
exact/norm bonds :
1-2 1-5 1-9 2-13 3-15 4-5 15-31 18-19 18-22 18-26 19-20 21-31 22-30
exact bonds :
2-3 3-4 4-14 6-12 10-17 20-21 20-32 21-22 23-29 25-33
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11 23-24 23-28 24-25 25-26 26-27 27-28
isolated ring systems :
containing 1 : 6 : 18 : 23 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 17:CLASS 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 16:32:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      1 TO ITERATE

100.0% PROCESSED       1 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 16:32:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     10 TO ITERATE

100.0% PROCESSED      10 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01

L3             1 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             155.42     155.63
```

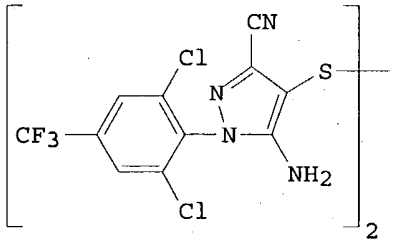
FILE COVERS 1907 - 8 Jun 2004 VOL 140 ISS 24
FILE LAST UPDATED: 7 Jun 2004 (20040607/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

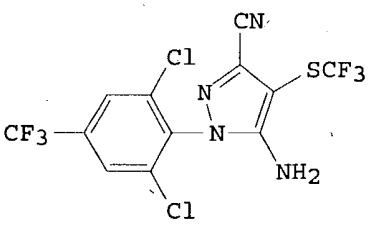
=> s l3
L4 2 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:191618 CAPLUS
DOCUMENT NUMBER: 118:191618
TITLE: Reactions of bromotrifluoromethane and related halides. Part 12. Transformation of disulfides into perfluoroalkyl sulfides in the presence of sulfoxylate anion radical precursors
AUTHOR(S): Clavel, Jean Louis; Langlois, Bernard; Nantermet, Roland; Tordeux, Marc; Wakselman, Claude
CORPORATE SOURCE: Rhone-Poulenc Rech., Cent. Rech. Carrieres, Saint-Fons, 69192, Fr.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1992), (24), 3371-5
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:191618
GI



I



II

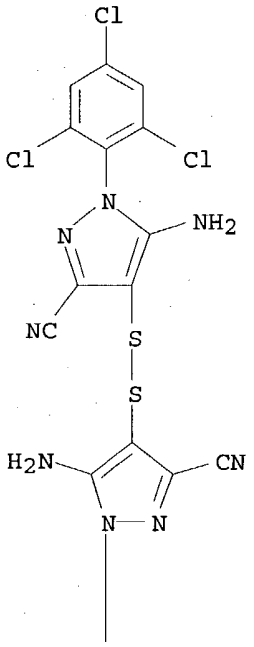
AB Perfluoroalkyl sulfides are prepared by reaction of perfluoroalkyl halides with disulfides in the presence of sulfoxylate anion radical precursors. Aliphatic, aromatic and heteroarom. disulfides bearing cyano, ester and amino functional groups have been employed; a variety of perhaloalkanes can also be employed, e.g., CF3(CF2)nI, CF3Br, CF2Br2, CF2BrCl, CFCl3 and CF2ClCFCl2. The most convenient sulfoxylate anion radical precursor for this reaction is formed by a combination of sodium formate and sulfur dioxide. Thus, reaction of pyrazolyl disulfide I with HCO2Na and SO2 in DMF at 60° and 12-13 bar for 4 h in an autoclave afforded perfluoroalkyl sulfide II in 85% yield. Also, reaction of PhSSPh with CF2BrCl and Rongalite (sodium hydroxymethanesulfinate) in DMF-H2O at 1.7 bar and 20° for 6 h afforded PhSCF2Cl in 72% yield.

IT **130755-50-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(haloalkylation of, haloalkyl sulfide from)

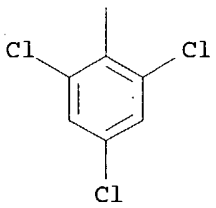
RN 130755-50-9 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 4,4'-dithiobis[5-amino-1-(2,4,6-trichlorophenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

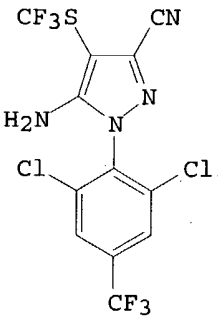


L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:5483 CAPLUS
DOCUMENT NUMBER: 114:5483
TITLE: Preparation of perhaloalkyl thioethers from disulfides and perfluoroalkyl halides, and its application to pyrazole derivatives
INVENTOR(S): Clavel, Jean Louis; Langlois, Bernard; Nantermet, Roland; Tordeux, Marc; Wakselman, Claude
PATENT ASSIGNEE(S): Rhone-Poulenc Agrochimie, Fr.
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 374061	A1	19900620	EP 1989-420489	19891212
EP 374061	B1	19940615		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2640264	A1	19900615	FR 1988-16710	19881213
FR 2640264	B1	19910125		
FR 2652810	A1	19910412	FR 1989-13371	19891009
FR 2652810	B1	19930730		
CA 2004776	AA	19900613	CA 1989-2004776	19891206
CA 2004776	C	20000425		
IL 92639	A1	19961016	IL 1989-92639	19891211
DK 8906265	A	19900614	DK 1989-6265	19891212
AU 8946164	A1	19900621	AU 1989-46164	19891212
AU 640621	B2	19930902		
HU 55738	A2	19910628	HU 1989-6508	19891212
HU 206661	B	19921228		
US 5082945	A	19920121	US 1989-448983	19891212
ES 2055145	T3	19940816	ES 1989-420489	19891212
RU 2045517	C1	19951010	RU 1989-4742646	19891212
FI 95568	B	19951115	FI 1989-5938	19891212
FI 95568	C	19960226		
CZ 282729	B6	19970917	CZ 1989-7022	19891212
CN 1043499	A	19900704	CN 1989-109370	19891213
CN 1032201	B	19960703		
JP 02204477	A2	19900814	JP 1989-323662	19891213
JP 2746707	B2	19980506		
BR 8906521	A	19900828	BR 1989-6521	19891213
ZA 8909519	A	19910828	ZA 1989-9519	19891213
US 5283337	A	19940201	US 1991-789332	19911108

PRIORITY APPLN. INFO.: FR 1988-16710 A 19881213
FR 1989-13371 A 19891009
US 1989-448983 A3 19891212

OTHER SOURCE(S): MARPAT 114:5483
GI



I

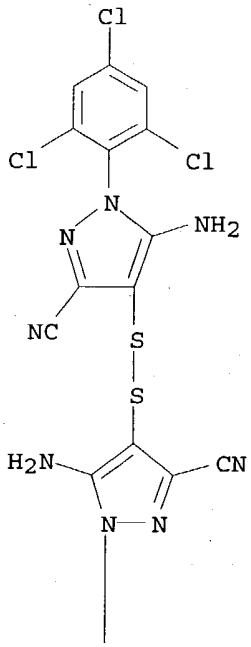
AB Perhaloalkyl thioethers are prepared by reaction of disulfides with perfluoroalkyl halides and reducing agents formed from (a) SO2 and either Zn, Cd, Al, or Mn, or (b) an alkali metal dithionite, or (c) an alkali metal, alkaline earth, or other metal hydroxymethanesulfinate, or (d) a formate and SO2. For example, reaction of Ph2S2 with Na dithionite and CF3Br(g) in aqueous DMF containing Na2HPO4 at 20° gave 65% PhSCF3. Pyrazole derivative I was similarly prepared using SO2 and Na formate with 95% conversion and 90% yield. Various aliphatic, aromatic, and pyrazole-derived thioethers were prepared; yields ranged from 6 to 93%.

IT **130755-50-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with fluoroalkyl halides and reducing agents)

RN 130755-50-9 CAPLUS

CN 1H-Pyrazole-3-carbonitrile, 4,4'-dithiobis[5-amino-1-(2,4,6-trichlorophenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



US 1036060207P1

Creation date: 06-23-2004
Indexing Officer: CCRUZ - CESAR CRUZ
Team: OIPEScanning
Dossier: 10360602

Legal Date: 06-24-2004

No.	Doccode	Number of pages
1	CTRS	10
2	FWCLM	1
3	SRFW	1
4	BIB	1

Total number of pages: 13

Remarks:

Order of re-scan issued on .....